

10/500783

DT04 Rec'd PCT/PTO 02 JUL 2004

Filed Via Express Mail

Rec. No.: EL980189395US

On: July 2, 2004

By: [Signature]

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#3/A

Attorney Docket No.: SHI 19.277 (310010-00105)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Inventor : **Ralph C. LONGSWORTH**  
Serial No. : **concurrently herewith**  
Filed : **concurrently herewith**  
Title : **INTEGRAL PULSE TUBE REFRIGERATOR AND  
CRYOPUMP**

July 2, 2004

Commissioner For Patents  
PO Box 1450  
Alexandria, VA 22313-1450

**PRELIMINARY AMENDMENT**

S I R:

Prior to examination please amend the application as follows: